09/622,915

[redacted]

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=> e biosis medline caplus wpids uspatfull
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which has an index.  This file does not have an index.

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=> file biosis medline caplus wpids uspatfull
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FILE 'BIOSIS' ENTERED AT 13:07:49 ON 05 FEB 2004
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CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

*** YOU HAVE NEW MAIL ***

=> s fullerene (4a) chain?
L1          201 FULLERENE (4A) CHAIN?

=> s l1 and transfection (3a) DNA
L2            0 L1 AND TRANSFECTION (3A) DNA

=> s l1 and DNA
L3            7 L1 AND DNA

=> d l3 bib abs 1-7

L3   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:76550  CAPLUS
DN   138:135830
TI   Antibodies specific to fullerene nanotubes for detection and
     immobilization of nanotubes
IN   Erlanger, Bernard F.; Brus, Louis; Sheetz, Michael P.
PA   The Trustees of Columbia University In the City of New York, USA
SO   PCT Int. Appl., 155 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   WO 2003007881      A2    20030130       WO 2002-US22620  20020716
     WO 2003007881      A3    20031127
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003113940 A1 20030619 US 2002-197080 20020716

PRAI US 2001-305929P A2 20010716

US 2002-371023P A2 20020408

AB This invention provides two compns. The first composition comprises a nanotube and at least one anti-nanotube antibody, wherein the anti-nanotube antibody is bound to the nanotube. The second composition comprises a fullerene and at least one anti-fullerene antibody, wherein the anti-fullerene antibody is bound to the fullerene. Finally, this invention provides methods and kits relating to the antibody and compns. of matter.

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:866165 CAPLUS

DN 136:147154

TI **DNA**-cleavage by fullerene-based synzymes

AU Samal, Shashadhar; Geckeler, Kurt E.

CS Laboratory of Applied Macromolecular Chemistry, Department of Materials Science and Engineering, Kwangju Institute of Science and Technology, Kwangju, 500-712, S. Korea

SO Macromolecular Bioscience (2001), 1(8), 329-331 Published in: Macromol. Chem. Phys., 202(16)
CODEN: MBAIBU; ISSN: 1616-5187

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

AB Efficient cleaving of **DNA** oligonucleotides by a water-soluble **fullerene** main-**chain** polymer is demonstrated following a facile routine of monitoring the reaction by UV-vis spectroscopy and separating the cleaved fractions by membrane filtration. A small quantity of the fullerene derivative could cleave a large excess of the oligonucleotide under ambient light conditions, leading to cleaved **DNA** in quant. yields.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:812109 CAPLUS

DN 130:168595

TI On the Mechanism of **DNA** Cleavage by Fullerenes Investigated in Model Systems: Electron Transfer from Guanosine and 8-Oxo-Guanosine Derivatives to C60

AU Bernstein, Robert; Prat, Ferran; Foote, Christopher S.

CS Department of Chemistry Biochemistry, University of California, Los Angeles, CA, 90095-1569, USA

SO Journal of the American Chemical Society (1999), 121(2), 464-465
CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

AB Fullerenes and dihydro-fullerenes are electron-poor photosensitizers, and **DNA** photo-cleavage (selective for G) mediated by these compds. has been reported. Two possible mechanisms, involving electron transfer from

G to fullerene (type 1), or singlet oxygen (1O2) generated by the fullerene as the active oxidant (type 2), have been proposed. The authors report the first detection of electron transfer from a guanosine derivative to C60, and show that an 8-oxo-guanosine derivative is far more reactive under the same conditions. They conclude that, for an isolated G in a **DNA** strand, type 2 oxidation is the expected mechanism, while for GG stacks, the most likely mechanism is type 1.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:158195 CAPLUS
DN 120:158195
TI Fullerene-coated surfaces and cell-culture uses thereof
IN Richmond, Robert C.; Gibson, Ursula J.
PA Trustees of Dartmouth College, USA
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9400552	A1	19940106	WO 1993-US5680	19930614
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5310669	A	19940510	US 1992-901911	19920622
PRAI	US 1992-901911		19920622		

AB Substrates having a surface coated with fullerene and a substance attached thereto are disclosed. Cell culture substrates having a fullerene-coated surface are useful in methods of growing cells on the fullerene-coated surface. Methods of preparing cell culture substrates for cell attachment and growth by coating a surface with fullerene are provided. Cells can be grown on a fullerene-coated surface in the presence of a substance such as a cytokine, growth hormone or a drug, to evaluate the interaction between the substance and the cells. Methods for increasing cell membrane permeability and for introducing a substance, such as a **DNA** or RNA vector, into a cell are also provided. The methodol. of the invention was applied to CHO cell culture.

L3 ANSWER 5 OF 7 USPATFULL on STN
AN 2002:231098 USPATFULL
TI Methods for the preparation and characterization of multi-substituted fullerenes
IN Murphy, Randall B., Irvington, NY, United States
Wilson, Stephen R., Chatham, NJ, United States
Lu, Quing, Livingston, NJ, United States
PA Sphere Biosystems, Inc., Chatham, NJ, United States (U.S. corporation)
PI US 6448412 B1 20020910
AI US 2000-702144 20001030 (9)
RLI Division of Ser. No. US 1997-969261, filed on 13 Nov 1997, now patented, Pat. No. US 6162926 Continuation of Ser. No. US 1995-509209, filed on 31 Jul 1995, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Lambkin, Deborah C.
LREP Williams, Morgan & Amerson, P.C.
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 14 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 2604
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

09567863

AB The invention is directed to multiply-substituted fullerene derivatives of novel configurations, and methods for their preparation and use. The methods involve the combinatorial synthesis of a library of fullerene derivatives and comprises the steps of forming a mixture of fullerene derivatives by reacting the C.sub.n fullerene with two or more reactive precursor compounds, and removing the unreacted compounds to yield the fullerene derivatives having the desired activity. Methods for the identification and screening of a combinatorial library of fullerenes by .sup.3He-nuclear magnetic resonance and electrospray mass spectrometry to define members with the optimal desired activity are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 7 USPATFULL on STN
AN 2002:130106 USPATFULL
TI Multiply-substituted fullerenes
IN Murphy, Randall B., Irvington, NY, United States
Wilson, Stephen R., Chatham, NJ, United States
Lu, Quing, Livingston, NJ, United States
PA C-Sixty, Inc., Toronto, CANADA (non-U.S. corporation)
PI US 6399785 B1 20020604
AI US 2000-702143 20001030 (9)
RLI Continuation of Ser. No. US 1998-969261, filed on 23 Dec 1998, now patented, Pat. No. US 6162926 Continuation of Ser. No. US 1995-509209, filed on 13 Jul 1995, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Higel, Floyd D.
LREP Evans, Esq., Barry, Kramer Levin Naftalis & Frankel, LLP
CLMN Number of Claims: 1
ECL Exemplary Claim: 1
DRWN 14 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 2522
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention is directed to multiply-substituted fullerene derivatives of novel configurations, and methods for their preparation and use. The methods involve the combinatorial synthesis of a library of fullerene derivatives and comprises the steps of forming a mixture of fullerene derivatives by reacting the C.sub.n fullerene with two or more reactive precursor compounds, and removing the unreacted compounds to yield the fullerene derivatives having the desired activity. Methods for the identification and screening of a combinatorial library of fullerenes by .sup.3He-nuclear magnetic resonance and electrospray mass spectrometry to define members with the optimal desired activity are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 7 USPATFULL on STN
AN 2000:171150 USPATFULL
TI Multi-substituted fullerenes and methods for their preparation and characterization
IN Murphy, Randall B., Irvington, NY, United States
Wilson, Stephen R., Chatham, NJ, United States
Lu, Quing, Livingston, NJ, United States
PA Sphere Biosystems, Inc., Chatham, NJ, United States (U.S. corporation)
PI US 6162926 20001219
AI US 1997-969261 19971113 (8)
RLI Continuation of Ser. No. US 1997-969261, filed on 13 Nov 1997, now abandoned which is a continuation of Ser. No. US 1995-509209, filed on 31 Jul 1995, now abandoned
DT Utility
FS Granted

09567863

EXNAM Primary Examiner: Higel, Floyd D.
LREP Evans, Esq., BarryKramer Levin Naftalis & Frankel LLP
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 14 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 2598
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention is directed to multiply-substituted fullerene derivatives of novel configurations, and methods for their preparation and use. The methods involve the combinatorial synthesis of a library of fullerene derivatives and comprises the steps of forming a mixture of fullerene derivatives by reacting the C.sub.n fullerene with two or more reactive precursor compounds, and removing the unreacted compounds to yield the fullerene derivatives having the desired activity. Methods for the identification and screening of a combinatorial library of fullerenes by .sup.3 He-nuclear magnetic resonance and electrospray mass spectrometry to define members with the optimal desired activity are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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     (FILE 'HOME' ENTERED AT 13:07:10 ON 05 FEB 2004)

     FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 13:07:49 ON
     05 FEB 2004
L1          201 S FULLERENE (4A) CHAIN?
L2            0 S L1 AND TRANSFECTION (3A) DNA
L3            7 S L1 AND DNA

=> s fullerene and transfection (4a) DNA
L4            9 FULLERENE AND TRANSFECTION (4A) DNA

=> s l4 not l3
L5            9 L4 NOT L3

=> s l5 and cell?
L6            8 L5 AND CELL?

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7            8 DUP REM L6 (0 DUPLICATES REMOVED)

=> d l7 bib abs 1-8

L7   ANSWER 1 OF 8  USPATFULL on STN
AN    2003:257441  USPATFULL
TI     Use of buckysome or carbon nanotube for drug delivery
IN     Hirsch, Andreas, Rathsberg, GERMANY, FEDERAL REPUBLIC OF
       Sagman, Uri, Toronto, CANADA
       Wilson, Stephen R., Houston, TX, UNITED STATES
PI     US 2003180491      A1   20030925
AI     US 2003-367646     A1   20030214 (10)
PRAI   US 2002-356856P     20020214 (60)
DT     Utility
FS     APPLICATION
LREP   Raymund F. Eich, Ph.D., Williams, Morgan & Amerson, P.C., Suite 1100,
       10333 Richmond, Houston, TX, 77042
CLMN   Number of Claims: 44
ECL    Exemplary Claim: 1
DRWN   8 Drawing Page(s)
LN.CNT 1526
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     Compositions and methods for administering a therapeutic agent to a
       mammal are disclosed. The compositions comprise either (i) vesicles
       comprising an amphiphilic substituted fullerene, wherein the
       therapeutic agent is present in the vesicle interior or between layers
       of the vesicle wall, (ii) a substituted fullerene, comprising
       a fullerene core and a functional moiety, wherein the
       therapeutic agent is associated with the substituted fullerene
       , or (iii) carbon nanotubes, wherein the therapeutic agent is covalently
       bonded to the carbon nanotubes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7   ANSWER 2 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:220620  CAPLUS
DN   138:363267
TI   Water soluble fullerene as genetic vector
AU   Isobe, Hiroyuki; Nakamura, Eiichi
```

09567863

CS Graduate School of Science, University of Tokyo, Japan
SO Kobunshi (2003), 52(3), 142
CODEN: KOBUA3; ISSN: 0454-1138
PB Kobunshi Gakkai
DT Journal; General Review
LA Japanese
AB A review. Development of **fullerene** mols. with two arm moieties that were complementary and electrostatically-interacting structure to DNA mols. and the use of **fullerene** derivative as genetic vector were described. Some evidences showing DNA adduct formation of the **fullerene** derivative observed by atomic force microcopy and transfection into culture **cells** were presented. Transfection efficiency of the **fullerene** system comparative to the conventional methods was discussed.

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:233093 CAPLUS
DN 136:263081
TI Preparation of aminohydroxyfullerene and aminoepoxyfullerene derivatives as reagents for DNA compaction
IN Nakamura, Eiichi; Isobe, Hiroyuki; Tomita, Naoki
PA Fujisawa Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002088075	A2	20020327	JP 2000-272114	20000907
PRAI	JP 2000-272114		20000907		

OS MARPAT 136:263081
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I and II; R1 , R2 = (un)substituted hydrocarbyl or NR1R2 = (un)substituted N-containing heterocyclyl], which have excellent amphipathic property and are used for transfection of **cells** by compaction of DNA, are prepared Thus, a solution of 100 mg **fullerene** and 48 μL N-methylpiperazine in 50 mL chlorobenzene was irradiated by a W incandescent lamp with stirring to give 99% I (NR1R2 = N-methylpierazino). Plasmid DNA (pGreen lantern, 5040 bp), 4.0 mM aminoepoxyfullerene derivative, and NIH 3T3 **cells** were incubated for 6 h. An expression efficiency for fluorescent protein (GFP) was 0.003%.

L7 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:118551 CAPLUS
DN 137:164150
TI Gene operating **fullerene**
AU Isobe, Hiroyuki
CS Graduate School of Science, Department of Chemistry, University of Tokyo, Japan
SO Kagaku (Kyoto, Japan) (2002), 57(2), 33-34
CODEN: KAKYAU; ISSN: 0451-1964
PB Kagaku Dojin
DT Journal; General Review
LA Japanese
AB A review. The use of water-soluble **fullerene** derivs. as DNA

vectors was described. The author designed the **fullerene** derivative with two arms of cationic amines through which the mol. bound to two phosphate residues of the double stranded DNA. The **fullerene** mol. had very low DNA-cleaving activity and had the action to co-precipitate the bound DNA to form DNA aggregates. The ability of the **fullerene** derivative to introduce transgene to the target **cells** was discussed.

L7 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:902293 CAPLUS
DN 136:294749
TI Synthesis and transfection capability of multi-functionalized **fullerene** polyamine
AU Isobe, Hiroyuki; Tomita, Naoki; Jinno, Shigeki; Okayama, Hiroto; Nakamura, Eiichi
CS Department of Chemistry, Graduate School of Science, The University of Tokyo, Tokyo, 113-0033, Japan
SO Chemistry Letters (2001), (12), 1214-1215
CODEN: CMLTAG; ISSN: 0366-7022
PB Chemical Society of Japan
DT Journal
LA English
OS CASREACT 136:294749
AB A new **fullerene** transfection reagent bearing multiple-functional groups has been synthesized by diastereoselective double cycloaddn. reaction. The highly oxygenated reagent transfers extracellular DNA into mammalian **cells** with an efficiency comparable to that of a nor-analog.
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:579895 CAPLUS
DN 138:67130
TI Small molecules change gene shape
AU Nakamura, Eiichi
CS Graduate School of Science, University of Tokyo, Japan
SO Gendai no Takumi ga Tsukuru Mirai Busshitsu, [Daigaku to Kagaku Kokai Shinpojumu], 15th, Japan, 2001 (2001), 128-139 Publisher: Kubapuro, Tokyo, Japan.
CODEN: 69CYEL; ISBN: 4-87805-005-5
DT Conference; General Review
LA Japanese
AB A review. Chemical of fullerenes in their interaction with DNA and their use as genetic vectors were discussed. The efficient synthesis of the fullerenes and their derivs. for developing the DNA carriers with amphipathic natures were described. Structural anal. of **fullerene** C60 mols. interacted with a DNA strand was discussed and the practical application of the DNA-**fullerene** complex to the **DNA transfection** into the monkey kidney **cells** was presented.

L7 ANSWER 7 OF 8 USPATFULL on STN
AN 95:101121 USPATFULL
TI Method for introducing a biological substance into a target
IN Fitzpatrick-McElligott, Sandra G., Media, PA, United States
Lavin, John G., Swarthmore, PA, United States
Rivard, Germain F., Philadelphia, PA, United States
Subramoney, Shekhar, Hockessin, DE, United States
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)
PI US 5466587 19951114
AI US 1994-315309 19940929 (8)

09567863

RLI Continuation of Ser. No. US 1993-85696, filed on 30 Jun 1993, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Stone, Jacqueline M.; Assistant Examiner: Campbell, Bruce
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 910
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for introducing a biological substance into a target which utilizes particles having a substantially pure carbonaceous surface to which is associated a biological substance wherein the particles are sufficiently small to penetrate the target without killing the target is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 8 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1994-026193 [03] WPIDS
DNC C1994-012129
TI Substrate, especially for **cell** culture, coated with **fullerene** - which induces membrane damage when **cells** are exposed to light and oxygen , e.g. to facilitate **transfection** with **DNA**.
DC A96 B04 D16
IN GIBSON, U J; RICHMOND, R C
PA (DART-N) DARTMOUTH COLLEGE
CYC 19
PI WO 9400552 A1 19940106 (199403)* EN 53p
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: CA JP
US 5310669 A 19940510 (199418) 17p
ADT WO 9400552 A1 WO 1993-US5680 19930614; US 5310669 A US 1992-901911 19920622
PRAI US 1992-901911 19920622
AN 1994-026193 [03] WPIDS
AB WO 9400552 A UPAB: 19940303
Substrates comprising a **fullerene** (I)-coated surface with a substance (II) attached to this surface are new. Also new are (1) **cell** culture substrates with a (I)-coated surface; (2) **cell** cultures grown on these substrates, and (3) a solvent for removal of **cells** and tissues from substrates consisting of acidified sulpholane.
USE/ADVANTAGE - **Cells** grown on these surfaces can be exposed to eight in presence of O2 to increase the permeability of their membranes, i.e. to facilitate introduction of e.g. DNA, RNA, transfecting protein or drug, pref. applied to the **cell** before illumination. The **cells** can also be used to study interactions with cytokines, growth hormones, etc.
Dwg.0/9
ABEQ US 5310669 A UPAB: 19940622
Substrate comprises a **fullerene**-coated surface with a biological substance attached to the **fullerene**-coated surface.$
Also claimed is a **cell** culture substrate comprising the **fullerene**.
USE Used for growing **cells**, increasing **cell** membrane permeability and introducing DNA, RNA and vectors into **cells**.
Dwg.0/9

09567863

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